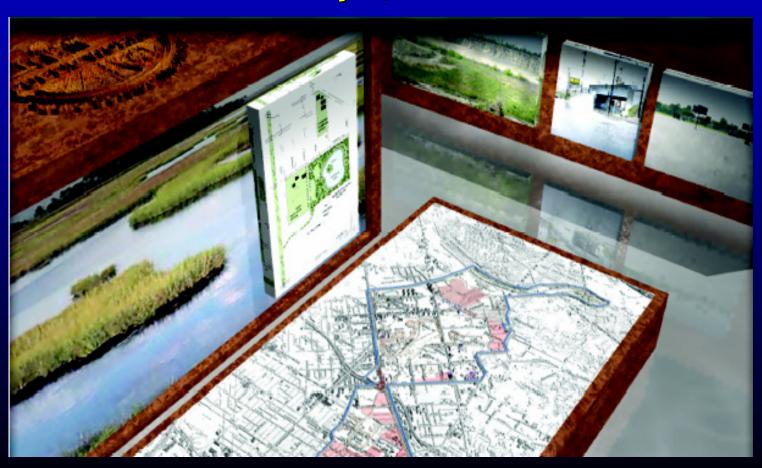
### **SUN VALLEY**

# Innovative Watershed Management Strategy Multi-Benefit Approach

May 5, 2008



#### **Sun Valley Watershed Background**



- Tributary to the Los Angeles River
- 4.4 square mile watershed
- Highly Urbanized with little recreation or open space

Sun Valley Watershed



#### **Sun Valley - Urbanized**



#### **Extreme Flooding Problems**



# Sun Valley Watershed Stakeholders Group Mission Statement Multiple Objective Solutions

The mission of the Sun Valley Watershed Stakeholders Group is to solve the local flooding problem while retaining all stormwater runoff from the watershed, increasing water conservation, recreational opportunities, and wildlife habitat, and reducing stormwater pollution.

#### Strong Stakeholder Group Collaboration

•LACDPW

TreePeople

•CALFED

•LADWP

• Businesses

•LAUSD

City of Burbank

The la Cuenca de sur la contra de la Cuenca de la cuenca

•Watermaster

•City Rec. & Parks

•City of L.A.

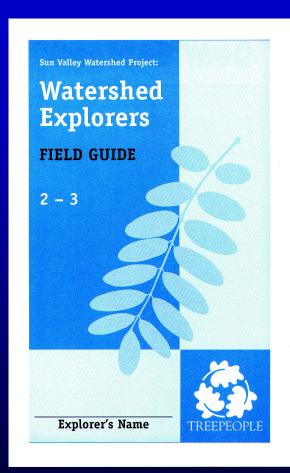
•Elected Officials

•RWQCB

Property Owners

Community Groups

#### **Community Outreach and Education**



the Sun Valley Watershed Stakeholders Group

#### Watershed Events

Volume '- Number 1

Spring 200

#### Something Incredible is Happening in Sun Valley!

The Sur-Valley Watershad Stubent days Group is pleased to progress from the community this that is sent of its resistant. The group was found and it 1999 be examine the entire the charge the Sur-Valley area and coving schools that would also conserve water, return pollution, the truth of the community art accessed park state. Finding these solutions and pulling them in place will require the lead and vallege, these and superciol Sur-Valley residence. The purpose of the modelates is to see our this irput, and to provide progress reports and wave stard news to Procurate area.

Anyone who's lived in the area for my length of time let was the assistant flooding a remote problem time and one than to the search to have defect so within. For many some the County government using of in draftfunds for a traditional second with Mono recently, other so without how have been they are the proposed that could begin radices sing flood tred begin addressing the trade of the problem.

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#### ¡Algo increíble está ocurriendo en Sun Valley!

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#### Vulcan Completes Storm Measures at Area Middle School

While the Coup's purpose is to develop permanent solutions in local facilities, we required that there are easily problems when me quite amendant solutions. One complete the implainment of soluted stresslys on ming the owners. Berny-stressnesses problems tree bean positional redentite for enters, earliers and receives it that Valley Middle School. Placking in the disposit mean energy Seatmen Avenus has made in difficult on impossible for kids to stay day in tweet car and chasacters.

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The interest materials maintain.

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#### Su cuenca...



#### Your watershed...















el proyect cuenca de SUN \





In-School Education

**Newsletters** 

**Educational Brochures** 

#### Watershed Management Plan & Program EIR

200



Sun Valley Watershed Management Plan

Final



Final

Program
Environmental
Impact Report
Sun Valley Watershed
Management Plan
SCH No. 2002111051

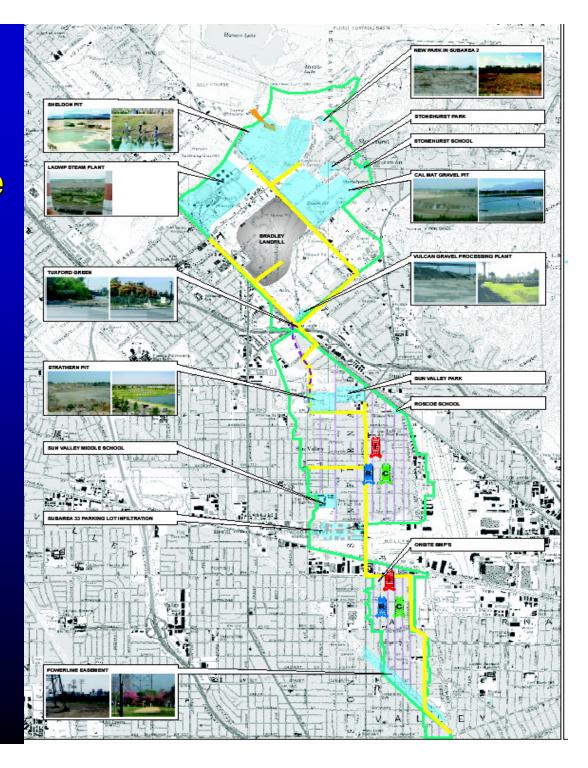




May 200

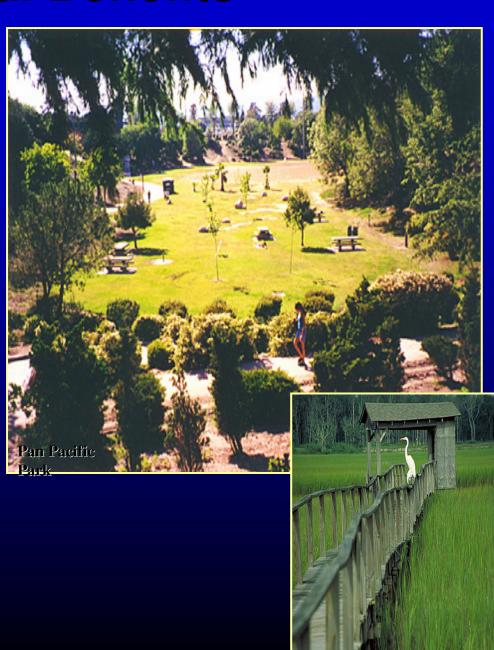
# Sun Valley's Solution: Projects with Multiple Objectives

- Flood Protection
- Water Quality
- WaterConservation
- HabitatRestoration
- RecreationalOpportunities

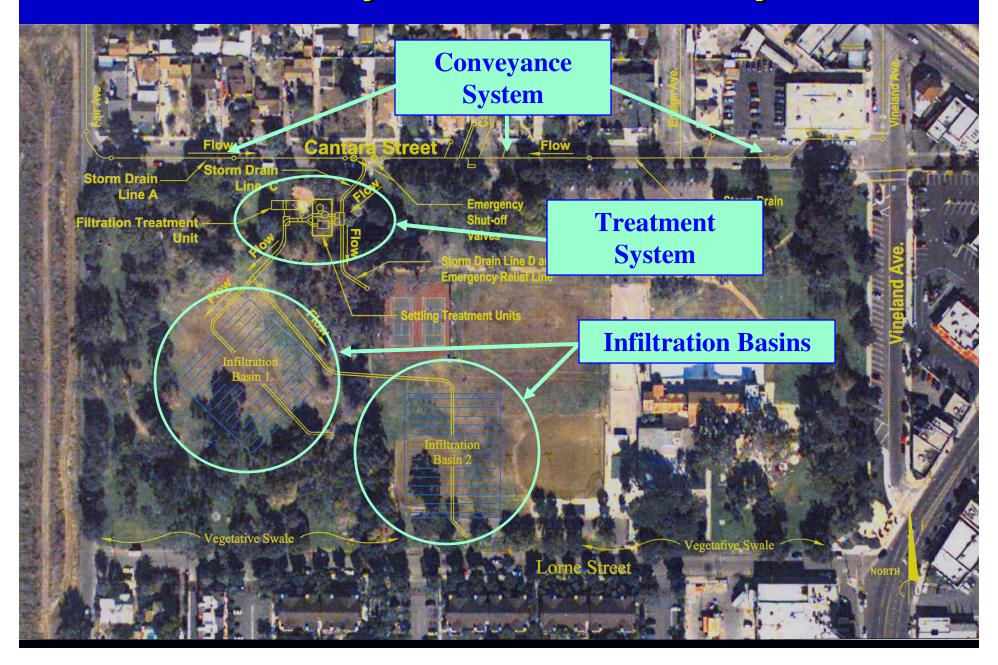


#### **Additional Benefits**

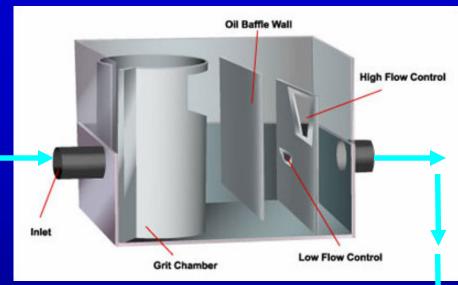
- Improved Water Quality for Receiving Waters
- Improved Air Quality
- Reduction on Reliance of Imported Water
- Educational Opportunities for the Community
- Increased Property Values
- Improved Quality of Life



#### **Sun Valley Park Multiuse Project**



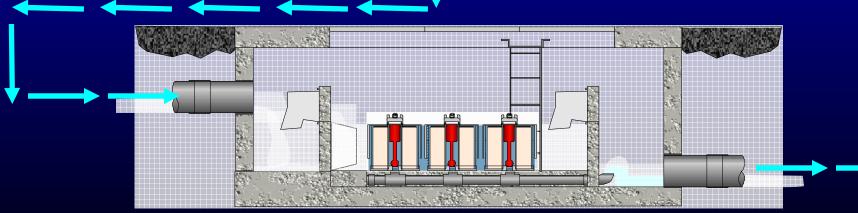
#### **Water Treatment Technology**



**Hydrodynamic Separator** 



**Infiltration Basins** 



**Filtration (Metals Treatment)** 

#### **Construction Photos – Treatment Units**

**Hydrodynamic Separators** 

**Metals Treatment Unit** 





- Downstream Defender
- Vortechnics

- Storm Filter by ConTech
  - Media Filter w/Perlite and Zeolite

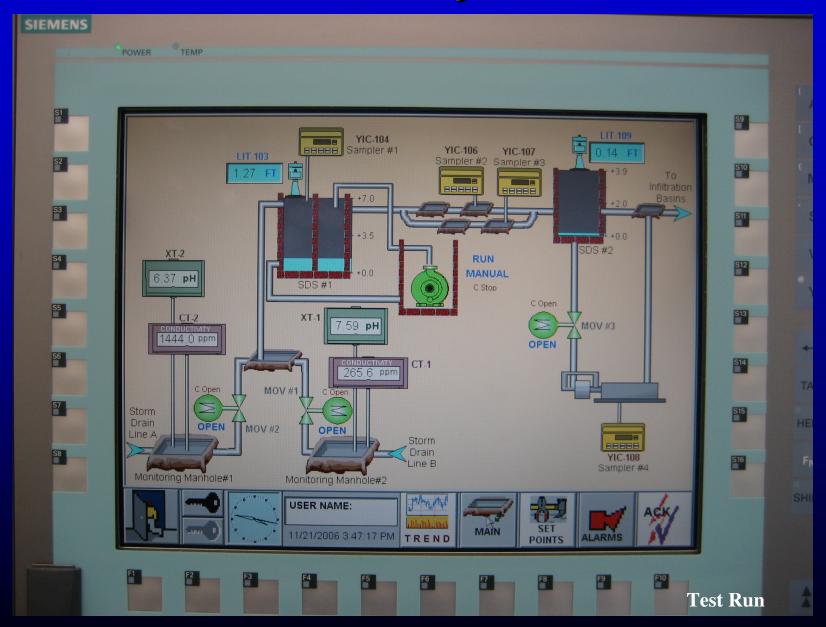
#### **Construction Photos – Infiltration Basins**





- Pre-Fabricated Concrete Structures (Storm Trap)
- Entirely underground to avoid impact to Park

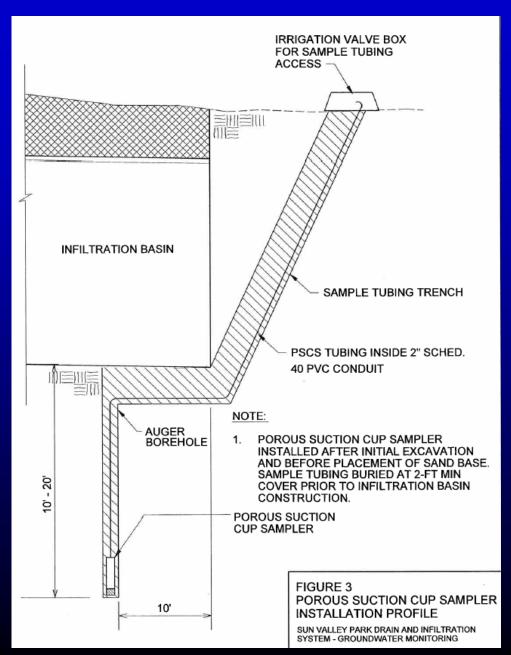
## **SCADA System**



## **Water Quality Monitoring**



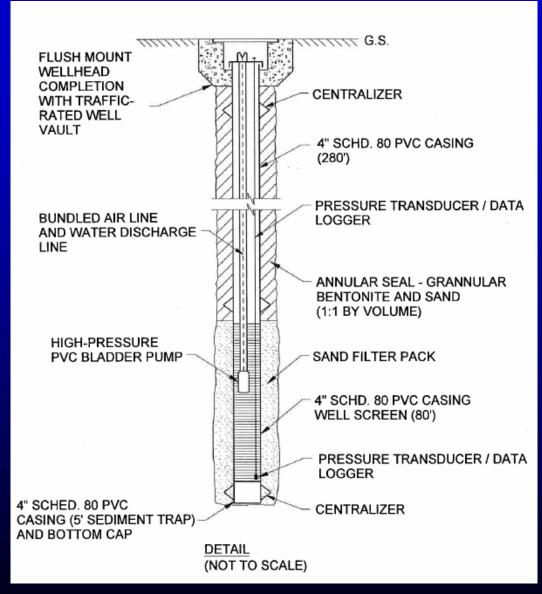
### **Vadose Zone Monitoring**







#### **Groundwater Monitoring**







#### **Vegetative Swales**





Designed to capture the nuisance water in the gutter. Effectively removing, treating, and infiltrating it.

## **Educational Signage**

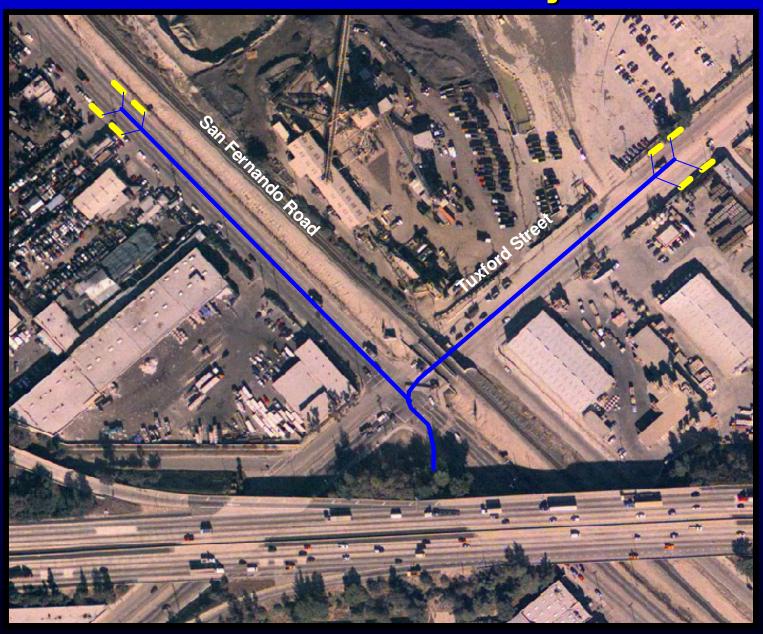


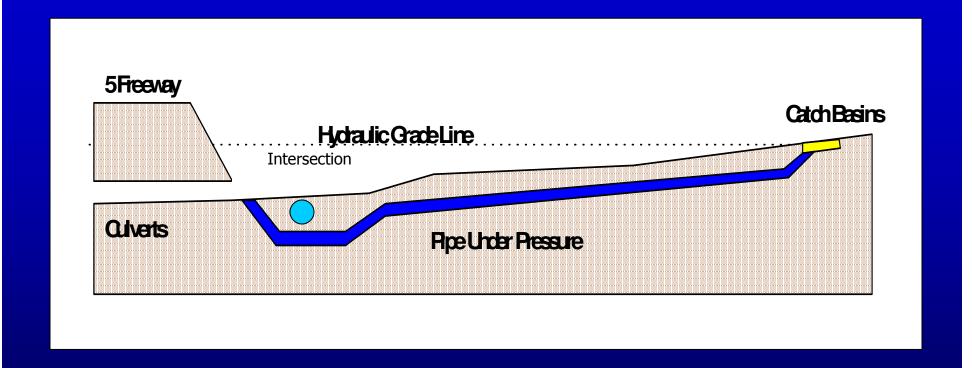


#### **Park Enhancements**









Water flows into the catch basins at a high elevation, is "pushed" by pressure under intersection, and out into the culverts.

- Flood Protection
- Improved Driving Conditions
- Improved Water Quality
  - **Hydrodynamic Separator**
- Water Reuse
  - 45,000 gallon cistern for irrigation purposes
- Native Landscaping
- AestheticEnhancements
- Educational Signage





## Potential Project Strathern Pit Wetlands Park



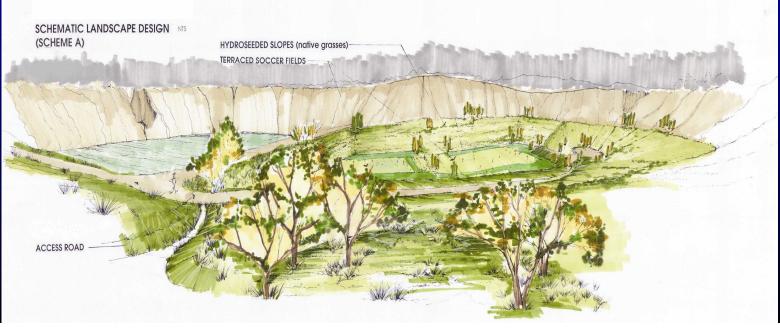


**Aerial-Existing Conditions** 

**Conceptual Rendering** 

### Strathern Pit Wetlands Park





#### **Strathern Pit Wetlands Benefits**

- Flood Protection
- Improved Water Quality
  - **10 Acres of Treatment Wetlands**
- Water Conservation
  - Avg. conserved = 900 acre-ft
- 46 Acres of Open Space Recreational Benefits
  - Including Trails & Soccer Fields
- Habitat Restoration
- Aesthetic Enhancements
- Educational Signage
- Air Quality Improvement



#### www.sunvalleywatershed.org



The mission of the Sun Valley Watershed Stakeholders Group is to solve the local flooding problem while retaining all stormwater runoff from the watershed, increasing water conservation, recreational opportunities, and wildlife habitat, and reducing stormwater pollution.

There's something exciting going on in Sun Valley! A serious effort to solve the area's chronic flooding problem is underway, but that's not the half of it. Planners envision a solution that will bring many other benefits to the community as well. The implementation here of what's known as a "watershed approach" to urban environmental problems could focus regional and national attention on Sun Valley. On this website, we'll provide both an introduction to the Sun Valley



Flooding is a serious problem in Sun Valley; the San Fernando/Tuxford intersection is one of the perennial trouble spots.

